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L2	1	1 and (updat\$4 same zero\$1 same output\$4 same number\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/13 10:20
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1 [GPGPU: general purpose computation on graphics hardware](#)

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lel
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(63.03 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful graphics architectures provide tremendous memory bandwidth and computational horsepower, with full processing units that support vector operations up to full IEEE floating point precision. High level languages making this computational power accessible. Architecturally, GPUs are highly parallel structures ...

2 [The Berkeley UNIX consultant project](#)

Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu
December 1988 **Computational Linguistics**, Volume 14 Issue 4

Publisher: MIT Press

Full text available: [pdf\(4.41 MB\)](#) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

UC (UNIX Consultant) is an intelligent, natural language interface that allows naive users to learn about undertaken because the task was thought to be both a fertile domain for artificial intelligence (AI) research planning, reasoning, natural language processing, and knowledge representation. The current implementation components: a language analyzer, called ALANA, produces a representation ...

3 [Shape-based retrieval and analysis of 3D models](#)

Thomas Funkhouser, Michael Kazhdan
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(12.56 MB\)](#)


Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help discover relationships between them. Unfortunately, traditional text-based search techniques are not as effective when queries are geometric in nature (e.g., find me objects that fit into this ...

4 [Variable-depth trie index optimization: theory and experimental results](#)

R. Ramesh, A. J. G. Babu, J. Peter Kincaid
March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.59 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We develop an efficient approach to Trie index optimization. A Trie is a data structure used to index a file of identifiers. In the proposed methodology, a file is horizontally partitioned into subsets of records using a binary search is per ...

5 Case-based reasoning: A comparative evaluation of name-matching algorithms



L. Karl Branting

June 2003

Proceedings of the 9th international conference on Artificial intelligence and law

Publisher: ACM Press

Full text available:  [pdf\(233.90 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Name matching---recognizing when two different strings are likely to denote the same entity---is an important task in many systems, such as case-management systems. The naming conventions peculiar to legal cases limit the string-matching algorithms in this task. This paper proposes a three-stage framework for name matching. The framework addresses the naming variations that typically arise in legal cases, describing ...

6 STAR: a transparent spanning tree bridge protocol with alternate routing



King-Shan Lui, Whay Chiou Lee, Klara Nahrstedt

July 2002

ACM SIGCOMM Computer Communication Review, Volume 32 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(289.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With increasing demand for multimedia applications, local area network (LAN) technologies are rapidly changing. Quality of service (QoS). In a network that consists of an interconnection of multiple LANs via bridges, an end-to-end forwarding path. In the IEEE 802.1D standard for bridges, a spanning tree is built among the bridges for forwarding. Albeit simple, this approach does not support all-pair shortest path ...

7 Functional and predictive programming in OODB's




Catriel Beeri, Tova Milo

July 1992

Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART symposium on Principles of Database Systems

Publisher: ACM Press

Full text available:  [pdf\(1.43 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Definitions and notation



December 1983 **ACM SIGAPL APL Quote Quad**, Volume 14 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(951.55 KB\)](#)

Additional Information: [full citation](#)


9 Abstracts—nuclear reactor codes



Virginia Nather, Ward Sangren

January 1959 **Communications of the ACM**, Volume 2 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(3.51 MB\)](#)

Additional Information: [full citation](#)

10 Two-dimensional round-robin schedulers for packet switches with multiple input queues

Richard O. LaMaire, Dimitrios N. Serpanos

October 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 5

Publisher: IEEE Press

Full text available:  [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

11 Language features for flexible handling of exceptions in information systems



Alexander Borgida

December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4

Publisher: ACM Press

Full text available: pdf(3.12 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

An exception-handling facility suitable for languages used to implement database-intensive information facilitates the development and maintenance of more flexible software systems by supporting the abnormal occurrences. The type constraints imposed by the schema as well as various semantic integrity normalcy conditions, and the key contribution of this work is to allow except ...

12 A prototype implementation of the SQL Ada module extension (SAME) method



Allison LeClair, Susan Phillips

December 1990 **Proceedings of the conference on TRI-ADA '90**

Publisher: ACM Press

Full text available: pdf(1.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

As Ada becomes more widespread, the ability to access commercial database technologies through Ada Researchers throughout our industry are investigating interface approaches between Ada and these technologies between Ada and SQL, a relational database language. This paper presents a recent implementation of Extension (SAME) method.

13 When are two workflows the same?

Jan Hidders, Marlon Dumas, Wil M. P. van der Aalst, Arthur H. M. ter Hofstede, Jan Verelst

January 2005 **Proceedings of the 2005 Australasian symposium on Theory of computing - Volume 1**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(236.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In the area of workflow management, one is confronted with a large number of competing languages (a relative expressiveness) are usually not clear. Moreover, even within the same language it is generally different ways, a feature known as variability. This paper aims at providing some of the formal grounds and variability by defining notions of equivalence capturing different views ...

14 When do bounds and domain propagation lead to the same search space?



Christian Schulte, Peter J. Stuckey

May 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(380.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#), [terms](#)

This article explores the question of when two propagation-based constraint systems have the same behavior. We categorize the behavior of domain and bounds propagators for primitive constraints, and provide theoretical behaviors for conjunctions of constraints. We then show how we can use this to analyze CLP(FD) programs. We replace domain propagators by more efficient bounds propagators without increasing ...

Keywords: Constraint (logic) programming, abstract interpretation, bounds propagation, domain propagation analysis

15 Featured column: Is CS1 better with the same lecture and lab instructor?



Renée McCauley, Christopher Starr, Walter Pharr, RoxAnn Stalvey, George Pothering

June 2006 **ACM SIGCSE Bulletin**, Volume 38 Issue 2

Publisher: ACM Press

Full text available: pdf(357.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents results from a four-semester classroom experiment to assess whether the introduction of laboratory courses would be more effective if they were taught by the same or different instructors. We


as dependent variables, we determined there is no statistically significant effect on learning outcomes in lab. Results of a qualitative survey, however, showed a statistically ...

Keywords: CS1, closed-laboratories, computer science education research, instructional design

16 Equal rights for functional objects or the more things change, the more they are the same

 Henry G. Baker
October 1993 **ACM SIGPLAN OOPS Messenger**, Volume 4 Issue 4


Publisher: ACM Press

Full text available:  [pdf\(2.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We argue that intensional *object identity* in object-oriented programming languages and databases is too weak. A corollary is that "functional" objects have extensional semantics. This model of object identity, based on forms of relational algebra, provides cleaner semantics for the value-transmission operations and built-in programming language, and eliminates the confusion surrounding "ca ...

17 Different perspectives of the N-Queens problem

 Cengiz Erbas, Seyed Sarkeshik, Murat M. Tanik
April 1992 **Proceedings of the 1992 ACM annual conference on Communications**

Publisher: ACM Press

Full text available:  [pdf\(777.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The N-Queens problem is a commonly used example in computer science. There are numerous approaches to solve it. We introduce several definitions of the problem, and review some of the algorithms. We classify the algorithms into three categories. The first category comprises the algorithms generating all the solutions for a given N. The second category is designed to generate only the fundamental solutions [34]. The algorithms in the ...

18 Energy-efficient load and store reuse


 Jun Yang, Rajiv Gupta
August 2001 **Proceedings of the 2001 international symposium on Low power electronics and design**

Publisher: ACM Press


Full text available:  [pdf\(188.63 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 How to read less and know more: approximate OCR for Thai

 Doug Cooper
July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on information retrieval SIGIR '97**, Volume 31 Issue SI

Publisher: ACM Press

Full text available:  [pdf\(1.73 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Chain multiplication of matrices of approximately or exactly the same size

 Nicola Santoro
February 1984 **Communications of the ACM**, Volume 27 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(387.25 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a different approach to finding an optimal computation order; it exploits both the difference between the number of nonzero elements in the matrices. Therefore, this technique can be used for matrices that are almost or exactly the same size. We show that using the proposed technique, an optimal computation order can be found for matrices that have the same size ...

Keywords: linear multiplication order, matrix chain product, sparse matrices

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

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